

Table 4: **p55**

HXB2 Location	Author Location	Sequence	Immunogen	Species(HLA)	References
p55(357–372)	Gag(357–372 LAI)	GHKARVLAEATLSQVN	HIV-1 infection	human()	[Buseyne (1993a)]
					<ul style="list-style-type: none"> • Vertical transmission of HIV ranges from 13% to 39% • Primary assays showed cytotoxic activities against at least one HIV protein was detected in 70% of infected children • Epitopes recognized in five children were mapped using synthetic peptides and secondary cultures • Patient EM28 (CDC P2A) had a CTL response to four epitopes in Gag

Table 5: **p2p7p1p6**

HXB2 Location	Author Location	Sequence	Immunogen	Species(HLA)	References
p2p7p1p6(5–13)	Gag()	SQVTNPANI	p55gag vaccination	murine BALB/c(H-2D ^b)	[Paliard (1998)]
					<ul style="list-style-type: none"> • HIV-1(SF2)p55gag vaccination of H-2 mice activates a CTL response against this epitope • CTL that recognized SQVTNPANI in the context of H-2D^b cross-reacted with H-2 alloantigens H-2L^d and an unidentified self-peptide • A postulate: heterozygosity at the MHC level could prevent the maturation of some T cell receptor combinations for foreign peptide and self-MHC constructs because of thymic depletion and tolerance
p2p7p1p6(55–70)	p15(446–460 BRU)	KEGHQMKDCTERQANF	HIV-1 infection	human(A2)	[Claverie (1988)]
					<ul style="list-style-type: none"> • 1 of 4 epitopes first predicted, then subsequently shown to stimulate an HLA-A2 restricted CTL line
p2p7p1p6(83–97)	p15(418–433 BRU)	GNFLQSRPEPTAPPF	HIV-1 infection	human(A2)	[Claverie (1988)]
					<ul style="list-style-type: none"> • 1 of 4 epitopes first predicted, then subsequently shown to stimulate an HLA-A2 restricted CTL line